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APPLICATION FOR LETTERS PATENT

Applicants: WU-HONG HSIEH

Title : FAST RELEASE CLAMP FOR A CYMBAL

8 Claims

5 Sheets of Drawings

William E. Pelton  
Reg. No. 25,702  
Donald S. Dowden  
Reg. No. 20,701  
Cooper & Dunham LLP  
1185 Avenue of the Americas  
New York, New York 10036  
(212) 278-0400

# FAST RELEASE CLAMP FOR A CYMBAL

## 1 BACKGROUND OF THE INVENTION

### 2 1. Field of the Invention

3           The present invention relates to a fast release clamp, and more  
4 particularly to a fast release clamp for a cymbal to enable the cymbal user to  
5 replace the cymbal in a short period of time.

### 6 2. Description of Related Art

7           A conventional cymbal clamp is shown in Fig. 5, wherein a cymbal (20)  
8 is supported on top of a rod (301) which is securely connected to a cymbal stand  
9 (30). The rod (301) has a free end extending out of the cymbal (20) and provided  
10 with an outer threading formed on an outer periphery of the free end of the rod  
11 (301). A nut (40) is applied to threadingly connect to the free end of the rod (301)  
12 such that the cymbal (20) is securely clamped on the rod (301). When the cymbal  
13 user is changing the cymbal for a different sound effect, the cymbal user will  
14 have to first unscrew the nut (40) and then remove the cymbal (20) from the free  
15 end of the rod (301). Thereafter, the cymbal user is able to place a new cymbal  
16 (not numbered) on top of the rod (301) and tighten the nut (40) to securely fix the  
17 cymbal on the rod (301). The process of changing the cymbal is troublesome and  
18 inefficient. Sometimes, during a concert, the band will have to use a break to  
19 allow the drummer to fix the cymbal. Therefore, it is said that the conventional  
20 structure of clamping the cymbal should be improved to allow the cymbal user  
21 (the drummer) to easily and quickly change the cymbal and thus a concert might  
22 continue without any break for replacing the cymbal.

1           To overcome the shortcomings, the present invention tends to provide an  
2 improved cymbal clamp to mitigate the aforementioned problems.

### 3 SUMMARY OF THE INVENTION

4           The primary objective of the present invention is to provide an improved  
5 clamp for a cymbal. The clamp includes a top pressing member, an assembly  
6 block and a handle. The top pressing member has an extension extending into the  
7 assembly block. The handle is pivotally connected to the assembly block and has  
8 a wedged head formed to abut an outer periphery of the extension to secure the  
9 engagement between the top pressing member and the assembly block such that  
10 the cymbal sandwiched between the upper abutting element of the top pressing  
11 member and the lower abutting element is secured and the replacement of the  
12 cymbal is able to be accomplished within a short period of time by releasing the  
13 abutment of the handle to the outer periphery of the extension and pulling the top  
14 pressing member away from the assembly block.

15           Another objective of the present invention is to provide an auxiliary  
16 abutting fitting is provided to the outer periphery of the extension to engage with  
17 the wedge head of the handle to further secure the engagement between the  
18 extension and the assembly block.

19           Other objects, advantages and novel features of the invention will  
20 become more apparent from the following detailed description when taken in  
21 conjunction with the accompanying drawings.

### 22 BRIEF DESCRIPTION OF THE DRAWINGS

23           Fig. 1 is a perspective view a fast release clamp of the present invention;

1           Fig. 2 is an exploded perspective view showing the elements of the  
2 clamp of the present invention;

3           Figs. 3 and 4 are schematic views showing the application of the clamp  
4 to a cymbal; and

5           Fig. 5 is a perspective view of a conventional cymbal stand.

6           DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

7           With reference to Figs. 1 and 2, the fast release clamp in accordance with  
8 the present invention includes a top pressing member (10), an assembly block  
9 (15) and a handle (17).

10          The top pressing member (10) is composed of an upper abutting element  
11 (11) integrally formed on a bottom of the top pressing member (10) and an  
12 extension (101) extending from a bottom of the upper abutting element (11). An  
13 lower abutting element (12) is separate from the upper abutting element (11) and  
14 a first sleeve (121) is sandwiched between the upper abutting element (11) and  
15 the lower abutting element (12). A second sleeve (13) is provided with a step  
16 (131) formed on a top portion of the second sleeve (13) and has a C-shaped  
17 clamp mounted around the second sleeve (13).

18          The assembly block (15) has a central through hole (150), a first fixing  
19 hole (151), a second fixing hole (152) both defined in a side wall of the assembly  
20 block (15), a slot (155) defined in a side wall of the assembly block (15) to  
21 communicate with the central through hole (150) and a pin hole (156) oppositely  
22 defined through the assembly block (15) to communicate with the slot (155). A  
23 supporting hole (154) is defined in the assembly block (15) for receiving therein

1 a support (16) of a cymbal stand (not shown) and a receiving space (156) is  
2 defined in the assembly block (15) to communicate with the central through hole  
3 (150).

4 The handle (17) has a wedge head (170) formed on distal end of the  
5 handle (17) and a hole (173) defined in the wedge head (170) to correspond to  
6 the pin hole (156) of the assembly block (15).

7 With reference to Figs. 3 and 4, when the clamp of the present invention  
8 is to be assembled and applied to a cymbal (20), the extension (101) of the top  
9 pressing member (10) is extended through an extension hole (201) of the cymbal  
10 (20) (as shown in Fig. 2), the first sleeve (121), the lower abutting element (12),  
11 the second sleeve (13), the C-shaped clamp (14) and into the assembly block (15)  
12 from the central through hole (150). The support (16) from the cymbal stand is  
13 threadingly extended into the supporting hole (154) of the assembly block (15).  
14 Then a first fixing element (157), such as a bolt, is threadingly extended into the  
15 first fixing hole (151) to secure the support (16) inside the supporting hole (154).  
16 A second fixing element (158), such as a bolt, is threadingly extended into the  
17 second fixing hole (152) to secure the extension (101) inside the central through  
18 hole (150). It is noted that the first sleeve (121) is sandwiched between and  
19 received in the upper abutting element (11) and the lower abutting element (12).  
20 Meanwhile, the step (131) of the second sleeve (13) is received in the lower  
21 abutting element (12) so that the lower abutting element (12) is supported by the  
22 second sleeve (13) which is securely attached to a top face of the assembly block  
23 (15). Furthermore, the C-shaped clamp (14) is received in the central through

1 hole (150) and is extended by the extension (101). An auxiliary abutting fitting  
2 (18) is securely received in the slot (155) to abut an outer periphery of the C-  
3 shaped clamp (14). A pin (171) is extended through the pin hole (156) of the  
4 assembly block (15) and into the hole (173) of the handle (17) to allow the  
5 handle (17) to be pivotal relative to the assembly block (15).

6 It is noted that because the hole (173) is eccentrically defined in the  
7 wedge head (170), when the handle (17) is pivoted, the wedge head (170) abuts a  
8 face of the auxiliary abutting fitting (18) to force the C-shaped clamp (14) to  
9 engage with an outer periphery of the extension (101) such that the extension  
10 (101) is secured inside the assembly block (15) in addition of the second fixing  
11 element (158). Thus, the assembly of the clamp of the present invention is  
12 finished.

13 When replacing the cymbal (20) is required, the cymbal user only needs  
14 to lift the handle (17) to release the abutment of the wedge head (170) to the  
15 auxiliary abutting fitting (18), the resilience from the C-shaped clamp (14) will  
16 force the auxiliary abutting fitting (18) away to allow the top pressing member  
17 (10) to be movable relative to the assembly block (15). Thereafter, the cymbal  
18 user is able to lift the top pressing member (10) to proceed the replacement of the  
19 cymbal (20) in a relative short period of time and resume every element in place  
20 easily by pulling the handle (17) downward to abut the auxiliary abutting fitting  
21 (18).

22 It is to be understood, however, that even though numerous  
23 characteristics and advantages of the present invention have been set forth in the

1 foregoing description, together with details of the structure and function of the  
2 invention, the disclosure is illustrative only, and changes may be made in detail,  
3 especially in matters of shape, size, and arrangement of parts within the  
4 principles of the invention to the full extent indicated by the broad general  
5 meaning of the terms in which the appended claims are expressed.